country occupied by our observers; such isotherms are conand studied in connection with a contour map.

87.0; Corpus Christi, 84.0. The lowest mean temperatures

The regular diurnal period in temperature is shown by the hourly means given in Table IV for all stations having self-

registers.
The current departures from the adopted normal temperatures for July show an excess only in Nova Scotia, New Brunswick, and on the northern coasts of California and Washington. The greatest excesses were: Chatham, 2.6; and Sydney, 2.2. The temperature was generally deficient over the rest of the country, the greatest deficiency being: Lander, 5.8; Cheyenne, 5.4; Pueblo and Washington, 4.8.

Considered by districts, the current departures from normal temperatures are as given in Table I. There were no positive departures. The greatest negative departures were: Abilene (southern slope), 3.9; middle slope, 3.7; Middle Atlantic,

northern slope, and southern plateau, 3.1.

The accumulated monthly departures from normal temperatures from January 1 to the end of the current month are given in the second column of the following table, and the average departures are given in the third column, for comparison with the departures of current conditions of vegetation from the normal conditions.

Districts.	Accumulated departures.			Accumulated departures.	
	Total.	Aver- age.	Districts.	Total.	Aver- age.
North Dakota	$+6.0 \\ +0.2$	0.8 + 0.8 + 0.0 + 0.0	New England Middle Atlantic. South Atlantic. Florida Peninsula. East Gulf. West Gulf. Ohio Valley and Tenn. Lower Lakes. Upper Mississippi Northern slope. Middle slope. Southern slope (Abilene). Southern plateau Middle Pacific. South Pacific.	-12.8 -18.3 -12.8 -17.9 -17.9 -15.9 -15.9 -1.1 -1.5 -1.1 -1.5 -1.5 -1.5 -1.5 -1.5	0 - 0.5 - 1.8 - 2.6 - 1.8 - 2.7 - 2.7 - 2.3 - 1.1 - 2.8 - 1.2 - 0.6 - 1.3 - 1.1 - 2.8 - 1.2 - 0.3 - 0.6

The years of highest and lowest mean temperature for previous years in July are shown in Table I of the Review for July, 1894. The mean temperature for the current month was not the highest on record at any regular station of the Weather Bureau. It was the lowest on record at: Pueblo, Denver, Fresno, Salt Lake City, Winnemucca, Idaho Falls, and Walla Walla.

The maximum and minimum temperatures of the current month are given in Table I. The highest maximum was: Yuma, 113. The lowest maximum: Tatoosh Island, 73.

minima, Port Crescent, 35, and Havre, 36.

The years of highest maximum and lowest minimum temperatures are given in the last four columns of Table I of the current Review. During the present month the maximum temperatures were the highest on record at: Parkersburg, Sandusky, Fort Canby, and Astoria. The minimum temperatures were the lowest on record at: Block Island, New York, Baltimore, Washington, Cape Henry, Louisville, Columbus, Ohio, Cleveland, Sandusky, Detroit, Port Huron, Sault Ste. Marie, Chicago, Milwaukee, Green Bay, Duluth, St. Paul, La float gauges and 6 are weighing gauges. Crosse, Dubuque, Des Moines, Kansas City, Concordia, Sioux City, Miles City, Baker City, Pueblo, Abilene, and Jupiter. tion for July are given in Table I, which shows that precipi-

The greatest daily range of temperature and the extreme trolled largely by the local topography, and should be drawn monthly range are given for each of the regular Weather Bureau stations in Table I, which also gives data from which The highest mean temperatures were: Yuma, 89.2; Tucson, may be computed the extreme monthly ranges for each sta-Among the greatest daily ranges the large values tion. were: Point Reyes Light, 54.6; East Clallam, 55.6; Tatoosh der, 44. The small values were: Port Eads, 11; Corpus Christi, 12; Key West, 15; Hatterns, Block Island, Woods Hole, and Nantucket, 17. Among the extreme monthly ranges the large values were: Havre and Idaho Falls, 59; Huron, 58; Concordia, 57; Sioux City and Walla Walla, 56. The small values were: Corpus Christi, 13; Port Eads and San Diego, 17: Key West, 18.

No injurious frosts were reported during July.

MOISTURE.

The quantity of moisture in the atmosphere at any time may be expressed by means of the weight contained in a cubic foot of air, or by the tension or pressure of the vapor, or by the temperature of the dew-point. The mean dew-points for each station of the Weather Bureau, as deduced from observations made at 8 a. m. and 8 p. m., daily, are given in

The rate of evaporation from a special surface of water on muslin at any moment determines the temperature of the wet-bulb thermometer, but a properly constructed evaporometer may be made to give the quantity of water evaporated from a similar surface during any interval of time. Such an evaporometer, therefore, would sum up or integrate the effect of those influences that determine the temperature as given by the wet bulb; from this quantity the average humidity of the air during any given interval of time may be deduced.

The sensible temperature experienced by the human body and attributed to the atmosphere depends not merely upon the temperature of the air, but equally upon the dryness and the wind. The temperature of the wet-bulb thermometer as obtained by the whirling apparatus used in the shaded shelter corresponds to the temperature felt by persons standing in the shade of trees or houses, exposed to a natural breeze of at least 6 miles per hour. This temperature and its depression below the dry bulb are the fundamental data for all investigations into the relation between human physiology and the atmosphere. In order to present a monthly summary of the atmospheric conditions from a hygienic and physiological point of view, Table VIII has been prepared, showing the maximum, minimum, and mean readings of the wet-bulb thermometer at 8 a.m. and 8 p.m., seventy-fifth meridian

PRECIPITATION.

[In inches and hundredths.]

The distribution of precipitation for the month of July, 1895, as determined by reports from about 2,500 stations, is exhibited on Chart III. The numerical details are given in Tables I, II, and III. The precipitation for the current month was heaviest, over 12 inches, in Florida and western Missouri, and nearly 12 in southern Louisiana, but least, The highest minimum was: Corpus Christi, 76; the lowest averaging less than 0.5, over the Rocky Mountain Plateau Region, California, Oregon, and the interior of Washington.

The normal distribution of precipitation for each month is shown in the Atlas of Bulletin C, entitled "Rainfall and Snow of the United States, compiled to the end of 1891, with

annual, seasonal, monthly, and other charts.'

The diurnal variation is shown by Table XII, which gives the total precipitation for each hour of seventy-fifth meridian time, as deduced from self-registering gauges kept at about 43 regular stations of the Weather Bureau; of these 37 are

The current departures from the adopted normal precipita-